

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 1143 (1973): Cotton Mosquito Netting, Square Mesh [TXD
31: Man-Made Fibres, Cotton and their Products]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 1143 - 1973
(Reaffirmed 1992)

Indian Standard

SPECIFICATION FOR
COTTON MOSQUITO NETTING, SQUARE MESH
(*First Revision*)

Second Reprint SEPTEMBER 1998
(Incorporating Amendment No. 1)

UDC 677.664 : 645 : 427

© *Copyright* 1982

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110 002

AMENDMENT NO. 2 OCTOBER 1996
TO
IS 1143 : 1973 SPECIFICATION FOR COTTON
MOSQUITO NETTING, SQUARE MESH
(First Revision)

(Page 6, Table 2) — Insert the following matter at the end of the table:

Sl. No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST, REF TO
v)	pH value	6 to 8.5	IS 1390 : 1983¶ (Cold Method)

¶Method of determination of pH value of aqueous extracts of textile materials (*first revision*).

(TX 02)

Printed at Dee Kay Printers, New Delhi-110015, India

Indian Standard

SPECIFICATION FOR COTTON MOSQUITO NETTING, SQUARE MESH (*First Revision*)

Cotton and Cotton Products Sectional Committee, TDC 2

Chairman

DR V. SUNDARAM

Representing

Indian Council of Agricultural Research, New Delhi

Members

DR V. G. MUNSHI (<i>Alternate to</i> Dr V. Sundaram)	
SRI T. V. ANANTHAN	The Bombay Textile Research Association, Bombay
DR N. BAL SUBRAMANIAM (<i>Alternate</i>)	
CAPT A. K. BHATTACHARYA , I. N. Naval Headquarters	
SRI R. K. ATHEKAR (<i>Alternate</i>)	
SRI G. N. CHATTERJI	Ministry of Defence (R & D)
SRI B. K. RANGAN (<i>Alternate</i>)	
SRI K. P. CHOUDHURI	Bengal Millowners' Association, Calcutta
SRI A. C. DASGUPTA	The Delhi Cloth and General Mills Co Ltd, Delhi
DIRECTOR OF HANDLOOMS AND TEXTILES	Government of Tamil Nadu
SRI N. C. JAIN	Ministry of Defence (DGI)
SRI P. B. MEHTA (<i>Alternate</i>)	
SRI N. K. JAIN	The U. P. Cotton Textile Millowners' Association, Kanpur
SRI R. N. JOSHI	The Millowners' Association, Bombay
SRI R. S. MEHRA	All India Exporters' Chamber, Bombay
SRI R. M. MERCHANT	The Cotton Textiles Exports Promotion Council, Bombay
SRI S. P. MULICK	National Test House, Calcutta
SRI S. M. NADKARNI	The Ahmedabad Millowners' Association, Ahmedabad
SRI GADTAMBHAI S. NANAVATY	The Ahmedabad Millowners' Association, Ahmedabad
SRI J. K. S. NICHOLSON	The East India Cotton Association Ltd, Bombay
SRI D. G. DAMLE (<i>Alternate</i>)	
SRI KRISHNAKANT S. PATEL	Bombay Piece-Goods Merchants' Mahajan (Association), Bombay
SRI T. RANGASAMY	The Southern India Millowners' Association, Coimbatore
REPRESENTATIVE	South India Textile Research Association, Coimbatore

(Continued on page 2)

© Copyright 1982

BUREAU OF INDIAN STANDARDS

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

IS : 1143 - 1973

(Continued from page 1)

<i>Members</i>	<i>Representing</i>
SHRI B. P. SENGUPTA	Inspection Wing, Directorate General of Supplies and Disposals, New Delhi
SHRI N. S. SHARMA	The All India Federation of Co-operative Spinning Mills Ltd, Bombay
SHRI A. SUBRAMANIAM	Madura Mills Co Ltd, Madurai
SHRI A. CHELLARAJ (<i>Alternate</i>)	
SHRI T. A. SUBRAMANIAN	Ahmedabad Textile Industry's Research Association, Ahmedabad
DR B. V. IYER (<i>Alternate</i>)	
SHRI HAR NARAYAN TAPARIA	Federation of All India Cotton Powerloom Associations, Bombay
SHRI D. V. TYAGI	Textiles Committee, Bombay
SHRI B. SIVARAMAN (<i>Alternate</i>)	
SHRI HAREKISHON N. UDANI	Keshavlal Talakchand (Private) Ltd, Bombay
SHRI A. S. WAGH	Binny Limited, Madras
SHRI R. C. ZALANI	Office of the Textile Commissioner, Bombay
SHRI D. G. CHITRE (<i>Alternate</i>)	
SHRI S. M. CHAKRABORTY, Director (Tex)	Director General, ISI (<i>Ex-officio Member</i>)
<i>Secretary</i>	
SHRI P. VENKATARAMAN	
Deputy Director (Tex), ISI	

Cotton and Cotton Products Subcommittee, TDC 2 : 1

Convener

SHRI GAUTAMBHAI S. NANAVATY The Ahmedabad Millowners' Association, Ahmedabad

Members

SHRI A. P. ANANTHAKRISHNAN	The Millowners' Association, Bombay
SHRI A. C. DASGUPTA	The Delhi Cloth and General Mills Co Ltd, Delhi
SHRI N. C. JAIN	Ministry of Defence (DGI)
SHRI P. B. MEHTA (<i>Alternate</i>)	
SHRI R. N. JOSHI	The Millowners' Association, Bombay
SHRI R. C. D. KAUSHIK	The Technological Institute of Textiles, Rhiwani
DR K. I. NARASIMHAN	Office of the Textile Commissioner, Bombay
SHRI D. G. CHITRE (<i>Alternate</i>)	
SHRI ARUNBHAI M. PARIKH	The Ahmedabad Millowners' Association, Ahmedabad
SHRI T. RANGASAMY	The Southern India Millowners' Association, Coimbatore
SHRI B. P. SENGUPTA	Inspection Wing, Directorate General of Supplies and Disposals, New Delhi
SHRI T. A. SUBRAMANIAN	Ahmedabad Textile Industry's Research Association, Ahmedabad
DR B. V. IYER (<i>Alternate</i>)	

Indian Standard
SPECIFICATION FOR
COTTON MOSQUITO NETTING, SQUARE MESH
(*First Revision*)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 26 November 1973, after the draft finalized by the Cotton and Cotton Products Sectional Committee had been approved by the Textile Division Council.

0.2 This standard was originally published in 1957. It has now been taken up for revision with a view to making reference to the latest Indian Standards on methods of test and also for incorporating statistical methods of sampling.

0.3 This standard is based on IND/TC/0136(b) 'Netting, mosquito' issued by the Ministry of Defence, Government of India.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes constructional details and other particulars of cotton mosquito netting, square mesh, bleached or dyed.

1.2 This standard does not specify the general appearance, feel, etc, of the cloth.

2. MANUFACTURE

2.1 Yarn — The cotton yarn used in the manufacture of the cloth shall be satisfactory in evenness and reasonably free from neps and spinning defects.

*Rules for rounding off numerical values (revised).

IS : 1143 - 1973

2.2 Cloth — If required, the cloth shall be dyed with suitable dyes to shades with tolerance limits as agreed to between the buyer and the seller.

2.2.1 The cloth shall be suitably dressed to provide adequate degree of stiffness.

2.2.2 If required, the cloth shall be rendered resistant to microbial attack by treating it with salicylanilide or with any other mildew-proofing agent as agreed to between the buyer and the seller.

2.2.3 The cloth shall have 13 mm wide selvages woven in plain weave.

2.2.4 The cloth shall be free from substances liable to cause subsequent tendering.

2.2.5 The cloth, when visually examined, shall be reasonably free from spinning, weaving and processing defects.

3. REQUIREMENTS

3.1 Construction and Finish — The cloth shall comply with the requirements of Table 1 excepting the count of warp and weft which have been given only for guidance.

3.2 Other Requirements — Other requirements of the cloth shall be as given in Table 2.

4. MARKING

4.1 The cloth shall be marked with the following:

- a) Name of the material;
- b) Width and length of the piece;
- c) Manufacturer's name, initials or trade-mark, if any; and
- d) Year of manufacture.

4.1.1 The product may also be marked with Standard mark.

4.1.2 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

4.2 At the other end of the piece, the cloth shall be marked with an identification mark.

TABLE 1 PARTICULARS OF COTTON MOSQUITO NETTING, SQUARE MESH

(Clause 3.1)

*COUNT OF YARN (APPROX)		ENDS PER dm	PICKS PER dm	WEIGHT PER SQUARE METRE, Min	BREAKING LOAD ON 5 X 20 cm TEST STRIPS, Min		WEAVE
Warp	Weft				Warp	Weft	
Universal Count† (or Cotton Count‡)	Universal Count† (or Cotton Count‡)	(3)	(4)	(5)	(6)	(7)	(8)
(1)	(2)			g	kg	kg	
20 tex (or 30 ^S)	20 tex (or 30 ^S)	170	170	68	18	16	6-end mock- leno (square mesh)

TOLERANCE

 $\pm 5\%$ $\pm 5\%$ $\pm 5\%$ $+ 5\%$ $- 2.5\%$ — — —

METHOD OF TEST

IS : 1963-
1969§IS : 1964-
1970||IS : 1969-
1968¶

NOTE — To convert universal count in tex to cotton count, divide 590.5 by the universal count.

*For the guidance of manufacturers only.

†Universal count in tex = the number of grams per kilometre.

‡Cotton count (English) = the number of 84-yard hanks per pound.

§Methods for determination of threads per decimetre in woven fabrics (first revision).

||Methods for determination of weight per square metre and weight per linear metre of fabrics (first revision).

¶Method for determination of breaking load and elongation at break of woven textile fabrics (first revision).

TABLE 2 OTHER REQUIREMENTS OF COTTON MOSQUITO NETTING
(Clause 3.2)

Sl. No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST, REF TO
(1)	(2)	(3)	(4)
i)	Scouring loss, <i>Max</i>	8 percent	IS : 1383-1960*
ii)	Colour fastness to:		
	a) Light	4 or better	IS : 2454-1967†
	b) Washing	4 or better	IS : 764-1966‡
iii)	Mildew proofing (optional)	shall be moth resistant	IS : 1389-1959§
iv)	Dimensions:		
	a) Length	As declared	6 of IS : 1954-1969
	b) Width	As declared (usually 91 ± 1 or 124 ± 1 cm)	5 of IS : 1954-1969

*Method for determination of scouring loss in grey and finished cotton textile materials.

†Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

‡Method for determination of colour fastness of textile materials to washing: test 3 (*first revision*).

§Methods for testing cotton fabrics for resistance to attack by micro-organisms.

||Methods for determination of length and width of fabrics (*first revision*).

5. PACKING

5.1 The cloth shall be packed in bales or cases in conformity with the procedures laid down in IS : 1347-1972* or in IS : 293-1967† as required.

6. SAMPLING

6.1 For determining the conformity in respect of the physical characteristics, namely, ends and picks per decimetre, weight per square metre, breaking load, and width and length, the scale of sampling and the criteria for conformity as given in IS : 3919-1966‡ shall be followed.

6.2 For ascertaining the conformity in respect of scouring loss, moth resistance, and colour fastness, the scale of sampling and criteria for conformity as given in IS : 5463-1969§ shall be followed.

*Specification for inland packaging of cotton cloth and yarn (*first revision*).

†Specification for seaworthy packaging of cotton cloth and yarn (*second revision*).

‡Methods for sampling of cotton fabrics for determination of physical characteristics.

§Methods for sampling of cotton fabrics for chemical tests.

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones: 323 0131, 323 3375, 323 9402

Fax : 91 11 3234062, 91 11 3239399, 91 11 3239382

Telegrams : Manaksanstha
(Common to all Offices)

Central Laboratory:

Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad 201010

Telephone
8-77 00 32

Regional Offices:

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002 323 76 17

*Eastern : 1/14 CIT Scheme VII M, V.I.P. Road, Maniktola, CALCUTTA 700054 337 86 62

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022 60 38 43

Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113 235 23 15

†Western : Manakalaya, E9, Behind Marol Telephone Exchange, Andheri (East),
MUMBAI 400093 832 92 95

Branch Offices::

'Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMEDABAD 380001 550 13 48

‡Peenya Industrial Area, 1st Stage, Bangalore-Tumkur Road,
BANGALORE 560058 839 49 55

Gangotri Complex, 5th Floor, Bhadbhada Road, T.T. Nagar, BHOPAL 462003 55 40 21

Plot No. 62-63, Unit VI, Ganga Nagar, BHUBANESHWAR 751001 40 36 27

Kalaikathir Buildings, 670 Avinashi Road, COIMBATORE 641037 21 01 41

Plot No. 43, Sector 16 A, Mathura Road, FARIDABAD 121001 8-28 88 01

Savitri Complex, 116 G.T. Road, GHAZIABAD 201001 8-71 19 96

53/5 Ward No.29, R.G. Barua Road, 5th By-lane, GUWAHATI 781003 54 11 37

5-8-56C, L.N. Gupta Marg, Nampally Station Road, HYDERABAD 500001 20 10 83

E-52, Chitaranjan Marg, C-Scheme, JAIPUR 302001 37 29 25

117/418 B, Sarvodaya Nagar, KANPUR 208005 21 68 76

Seth Bhawan, 2nd Floor, Behind Leela Cinema, Naval Kishore Road,
LUCKNOW 226001 23 89 23

NIT Building, Second Floor, Gokulpat Market, NAGPUR 440010 52 51 71

Patliputra Industrial Estate, PATNA 800013 26 23 05

Institution of Engineers (India) Building 1332 Shivaji Nagar, PUNE 411005 32 36 35

T.C. No. 14/1421, University P. O. Palayam, THIRUVANANTHAPURAM 695034 6 21 17

*Sales Office is at 5 Chowringhee Approach, P.O. Princep Street,
CALCUTTA 700072 27 10 85

†Sales Office is at Novelty Chambers, Grant Road, MUMBAI 400007 309 65 28

‡Sales Office is at 'F' Block, Unity Building, Narashimaraaja Square,
BANGALORE 560002 222 39 71